

# WEST

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## Document Number 2

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File: DWPI

May 17, 1986

DERWENT-ACC-NO: 1986-166325

DERWENT-WEEK: 198626

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TITLE: Current-carrying nickel alloy roll - includes chromium, molybdenum, aluminium, and iron, also niobium or titanium

PATENT-ASSIGNEE: KUBOTA LTD [KUBI]

### PRIORITY-DATA:

1984JP-0222557

October 22, 1984

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61099649 A	May 17, 1986	N/A	005	N/A
JP 88040858 B	August 12, 1988	N/A	000	N/A

### APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP61099649A	October 22, 1984	1984JP-0222557	N/A

INT-CL (IPC): C22C 19/05; C25C 7/06; C25D 7/06

ABSTRACTED-PUB-NO: JP61099649A

### BASIC-ABSTRACT:

The alloy comprises in wt.% 0.15 or less C, 2.0 or less Si, 2.0 or less Mn, 15.0-30.0Cr, 4.0-10.0 Mo, 0.2-2.0Al, 10.0 or less Fe, either 0.1-3.0 Nb or 0.05-2.0 Ti, and the balance Ni.

USE/ADVANTAGE - Used for continuous electroplating, electrolytic conversion coating, and electrolytic degreasing. Excellent resistance to corrosion and to wear esp. in strong acidic corrosion environment. A smooth and clear surface can be maintained for long periods; long service life; no need of frequent replacement; decreased cost for re-polishing the roll.

In an example, a centrifugal cast pipe (140 mm o.d, 25 mm t, 280mm L) soln. treated at 1150 deg C x 2 hrs, followed by water quenching, comprised in wt.% 0.04C, 0.85 Si, 0.88Mn, 20.7Cr, 7.1Mo, 0.21Al, 0.12Nb, 4.2 Fe, and balance Ni. It had wear of 0.06 g/m2 in wear test run under the conditions rotation of roll 360 rpm; mated material, SGP50A. 30mm width; loading 5kg/cm2; test duration, continuously 2 days; and wt. loss by corrosion of 0.65 g/m2 after dipping into plating soln. of 400 g/l zinc sulphate, 30 g/l zinc chloride, pH=1.5 (adjusted by H2SO4) bath temp. 70 deg.C for 18 successive days, compared to 0.10 g/m2 wear amt. and 0.88 g/m2 wt. loss by corrosion for reference alloy pipe (roll).

(Silent)  
No  
Mg  
No  
Ca  
No  
B  
No  
Hf  
Zr

high

CHOSEN-DRAWING: Dwg.0/0

TIT LE-TERMS: CURRENT CARRY NICKEL ALLOY ROLL CHROMIUM MOLYBDENUM  
ALUMINIUM IRON NIOBIUM TITANIUM

DERWENT-CLASS: M11 M26

CPI-CODES: M26-B08; M26-B08A; M26-B08C; M26-B08J; M26-B08M; M26-B08S;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1703U; 1714U ; 1741U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-071423

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